

The Planing Principle

The planing operation is based on a drum rotating at high speed enclosed in the main body of the unit. The profile/texture is created by the accessories fitted to the drum commonly known as 'flails'. Once contact is made with the surface being treated the flail configuration cuts with a downward rotary action.

Flails are of different shapes and sizes and have different properties for specific tasks, they can be arranged on the drum for light cleaning through to heavy duty grooving applications.



Liberator 200



Liberator 250 in action



Liberator 250



Liberator 320

Product Range

The Preparation Group's range of Planing machines incorporate innovative design features for easy operation. There are no complicated controls, the drum lowering lever allows simple height adjustment for precision setting to the desired depth of cut. All models are constructed from heavy duty steel for long life and durability.

The Liberator 320 Planer benefits from a hydraulic drive mechanism.

Most models are available in petrol and diesel versions. There is also a ride-on Piranha machine (not shown) for heavy duty milling operations, ideal for car parks, sports facilities and factories.

Machine	Size H x L x W mm	Power	Motor	Weight
Liberator 200 Electric Planer	1200x980x360	110v/230v/415v	2.2kW	53kg
Liberator 200 Petrol Planer	1200x980x360		5.5hp	46kg
Liberator 250 Planer	1130x900x370	415v/3 phase/16amp	4W	170kg
Liberator 320 Planer	1140x1300x600	415v/3 phase/32amp	11kW	339kg



Applications

- Removal of old coatings
- Thermoplastic line removal
- Etching concrete/asphalt surfaces
- Cleaning of all types of surfaces
- Ice removal
- Reducing levels
- Rust removal on metal surfaces

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Accessories

A selection of the accessories that are available:

<p>Drum with TCT flails (Tungsten Carbide Cutters)</p> <p>Available in sizes for 200, 250 and 320 machines.</p>	
<p>TCT Flails</p> <p>Available in 5, 6, 8 and 12 point. For cleaning and texturing concrete/asphalt and stone surfaces.</p>	
<p>Beam Flails</p> <p>For cleaning off paint without damage to concrete, de-scaling steel and removal of oil and grease deposits.</p>	
<p>Milling Flails</p> <p>For removal of thermoplastic line markings, bitumous and rubber deposits, epoxy coatings and cementitious screeds in excess of 2mm.</p>	

Other drum configurations are available for a wide range of different applications.

When to select planing

Planing should be selected for material in excess of 1mm in thickness.

It is often specified for removal of High Build Coatings, Thermoplastic Compositions, Surface Contaminants in excess of 1mm, Latex and Polymer Screeds.

Note that hard compositions may create a problem for smaller planing machines as there is not enough weight to cut into the surface.

The profile achieved by the operation, using the drum and flail attachment selected, must always be considered to ensure that it is suitable for the specified product to be applied.

